

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

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Title: SYSTEM AND METHOD FOR EFFICIENT DISPATCH OF INTERFACE CALLS

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IN THE SPECIFICATION

Please amend the specification as follows:

[0013] FIG. 3A illustrates an example code including interfaces that have virtual member functions.

[0030] FIG. 3A illustrates an example code including interfaces that have virtual member functions. The code fragment marked 302 defines an interface D. Interface D may include two virtual member functions, G1 and G2. The code fragment marked 304 defines an interface E. Interface E may include two virtual member functions, G1 and G3. The code marked 306 defines a class F that implements the interface D. The class F contains three member functions, G4, G1, and G2. The code marked 308 defines a class G that implements the interface D and the interface E. The class G includes three member functions G1, G3, and G2.

[0057] FIGS. 7a and 7b illustrate example data structures which may be used to provide dispatch of interface member functions, according to an example embodiment of the present invention. The illustrated example data structure provides data structures for the code fragment given in FIG. 3A, and may enable efficient dispatch of interface member functions in the code illustrated in FIG. 3B. The data structures shown in FIG. 7a may be created by extending the conventional data structures previously illustrated in FIG. 4.